

PERCENTAGE LOG OF WATER-WELL CUTTINGS
UTAH GEOLOGICAL SURVEY

DWRi Appropriation #: 66-406(a28166)

Well Owner: U.S. Bureau of Land
Management

Location: (C-17-1)5ddb, Sanpete County, Utah

Win #: 35237

Driller: Midway Drilling

Geologist: Janae Wallace, 1/4/07

DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
0	5	100	0	tr	white clay, silt, and sand-sized grains/crystals? composed dominantly of quartz with feldspar, mafic minerals, magnetite, and lithic fragments and trace tuff; grains are subangular to rounded; slightly calcareous; Tertiary volcanics?
5	10	100	0	tr	“ trace light green clay
10	15	100	0	tr	“
15	20	100	0	tr	“
20	25	100	0	tr	“
25	30	100	0	tr	“ tan
30	35	100	0	tr	“
35	40	98	0	2	tan clay, silt, and sand-sized grains/crystals? composed dominantly of quartz with feldspar, mafic minerals, magnetite, and lithic fragments and minor tuff; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
40	45	98	0	2	“
45	50	98	0	2	“
50	55	100	0	0	tan clay, silt, and sand-sized grains/crystals? composed dominantly of quartz with feldspar, mafic minerals, magnetite, and lithic fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
55	60	100	0	0	“
60	65	100	0	0	“

*dis=disaggregated; volc=volcaniclastics

DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
65	70	100	0	0	“
70	75	100	0	0	tan clay, silt, and sand-sized grains/crystals? composed of quartz, feldspar, mafic minerals, magnetite, and lithic fragments (dominantly volcanic rock fragments); grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
75	80	100	0	0	“
80	85	100	0	0	“
85	90	100	0	0	“
90	95	100	0	0	“ trace orange clay
95	100	100	0	0	“
100	105	100	0	0	“
105	110	100	0	0	“
110	115	0	50	50	gray-green and pink volcaniclastics with tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
115	120	0	50	50	“
120	125	0	50	50	gray-green and pink volcaniclastics with tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
125	130	25	50	25	gray-tan and pink silt and sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous

*dis=disaggregated; volc=volcaniclastics

DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
130	135	10	50	40	“
135	140	0	50	50	gray-green, pink, yellow, and gray volcaniclastics with tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
140	145	0	95	5	“
145	150	0	90	10	“
150	155	0	80	20	“ tan gray, green tan, pink, and gray
155	160	0	80	20	“
160	165	0	80	20	“
165	170	0	80	20	“
170	175	0	80	20	“
175	180	0	50	50	“
180	185	0	50	50	“
185	190	0	50	50	tan-gray, green-tan, gray, and pink volcaniclastics with tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
190	195	0	80	20	“
195	200	0	80	20	“
200	205	10	80	10	gray-tan and pink silt and sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous

*dis=disaggregated; volc=volcaniclastics

DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
205	210	10	80	10	“
210	215	0	80	20	gray-tan and pink volcaniclastics with tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
215	220	0	50	50	“
220	225	0	50	50	“
225	230	0	50	50	“
230	235	0	75	25	“
235	240	0	75	25	“
240	245	0	75	25	“
245	250	10	80	10	gray, gray-tan, and pink sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
250	255	0	100	0	gray-tan volcaniclastics; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
255	260	0	100	0	“
260	265	0	100	0	“

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DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
265	270	100	0	0	gray-tan and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
270	275	95	5	0	gray-tan and pink silt and sand-sized grains/crystals and volcaniclastics; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
275	280	10	90	0	“
280	285	90	10	0	“
285	290	60	20	20	gray-tan and pink silt and sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
290	295	90	10	0	gray-tan and pink silt and sand-sized grains/crystals and volcaniclastics; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
295	300	90	10	0	“
300	305	100	0	0	gray-tan and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded

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DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
					(some quartz is subhedral to euhedral); slightly calcareous
305	310	90	10	0	gray and pink sand-sized grains/crystals and volcaniclastics; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
310	315	75	25	0	“
315	320	20	75	5	gray-tan and pink silt and sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
320	325	20	75	5	gray-tan and pink silt and sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
325	330	0	95	5	gray-tan and pink volcaniclastics and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
330	335	0	95	5	“
335	340	0	90	10	“
340	345	100	0	0	gray-tan and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded

*dis=disaggregated; volc=volcaniclastics

DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
					(some quartz is subhedral to euhedral); slightly calcareous
345	350	100	0	0	“
350	355	0	95	5	gray-tan and pink volcaniclastics and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
355	360	0	95	5	“
360	365	0	95	5	“
365	370	0	95	5	“
370	375	0	90	10	“
375	380	0	95	5	gray-tan and pink volcaniclastics and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
380	385	0	90	10	“
385	390	0	90	10	“
390	395	0	90	10	“
395	400	0	90	10	“
400	405	100	0	tr	gray-tan and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); trace tuff; slightly calcareous
405	410	100	0	tr	“
410	415	98	0	2	“ minor tuff
415	420	75	25	tr	gray, purple, and red silt and sand-sized

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DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
					grains/crystals and volcaniclastics; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); trace tuff; slightly calcareous
420	425	50	50	tr	“
425	430	50	50	tr	“
430	435	50	50	tr	“
435	440	50	50	tr	“
440	445	100	0	tr	gray, purple, and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); trace tuff; slightly calcareous
445	450	50	50	tr	gray, purple, white, and red silt and sand-sized grains/crystals and volcaniclastics; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); trace tuff; slightly calcareous
450	500	0	0	0	no sample
500	505	100	0	0	gray, tan, purple, and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
505	510	100	0	0	“
510	515	100	0	0	“
515	520	100	0	0	gray, tan, purple, and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly

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DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
					calcareous
520	525	100	0	0	“
525	530	90	10	0	gray, tan, purple, and pink silt and sand-sized grains/crystals and volcanoclastics; volcanoclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
530	535	90	10	0	“
535	540	50	50	0	“
540	545	50	50	0	“
545	550	50	40	10	gray, tan, purple, and pink silt and sand-sized grains/crystals, volcanoclastics, and tuff; volcanoclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
550	555	20	80	0	gray, tan, and pink silt and sand-sized grains/crystals and volcanoclastics; volcanoclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
555	560	20	80	0	“
560	565	80	20	0	“
565	570	50	50	0	“
570	575	90	10	0	“
575	580	100	0	0	gray, tan, and pink silt and sand-sized grains/crystals; grains are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous

*dis=disaggregated; volc=volcanoclastics

DEPTH RANGE (FEET)		PERCENTAGES			COMMENTS
		dis*	consolidated		
		volc*	volc*	tuff	
580	585	100	0	0	“
585	590	100	0	0	“
590	595	80	10	10	gray, tan, purple, and pink silt and sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
595	600	80	10	10	“
600	700	0	0	0	no sample
700	705	25	25	50	orange-pink, white, and gray silt and sand-sized grains/crystals, volcaniclastics, and tuff; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz is subhedral to euhedral); slightly calcareous
705	710	25	25	50	“
710	715	25	25	50	“
715	720	25	25	50	“
720	725	25	25	50	“
725	730	10	10	80	“
730	735	10	10	80	“
735	740	5	5	90	orange-pink tuff with silt and sand-sized grains/crystals, and volcaniclastics; volcaniclastics are composed of quartz, feldspar, mafic minerals, magnetite, and volcanic rock fragments; grains are subangular to rounded (some quartz and biotite is subhedral to euhedral); slightly calcareous
740	745	5	5	90	“
745	750	5	5	90	“
750	765	0	0	0	no sample

*dis=disaggregated; volc=volcaniclastics